of said clarified harvest with an increase in a titer of said host cells cultured in said CDM compared to affibercept produced by said host cells cultured in said CDM where said metal concentration is not decreased.

- 23. A method of increasing production of affibercept harvested from a host cell cultured in a chemically defined medium (CDM) and reducing affibercept sample color, comprising:
 - (a) providing said host cell genetically engineered to express aflibercept;
 - (b) culturing said host cell in said CDM under suitable conditions in which said host cell expresses aflibercept;
 - (c) harvesting affibercept produced by said host cell forming a harvest comprising affibercept wherein:
 - i. the cumulative concentration of iron in said CDM is less than or equal to about 55.0 $\mu M;$
 - ii. the cumulative concentration of copper in said CDM is less than or equal to about 0.8 $\mu M;$
 - iii. the cumulative concentration of nickel in said CDM is less than or equal to about $0.4~\mu M$;
 - iv. the cumulative concentration of zinc in said CDM is less than or equal to about 56 μ M;
 - v. the cumulative concentration of cysteine in said CDM is less than 10 mM; and/or
 - vi. including one or more anti-oxidant in said CDM wherein the concentration of said anti-oxidant is about 0.001 mM to about 10.0 mM for any single anti-oxidant.
- **24**. The method of claim **23**, wherein a titer of said host cells cultured in CDM to produce aflibercept is increased in

- comparison to a titer of host cells cultured in CDM exceeding one or more of said cumulative concentrations of(i)-(vi) while said sample color is no more yellow brown than European Color Standard BY2 when the concentration of protein in said harvest is normalized to 5.0 g/L.
- 25. The method of claim 23, wherein said cumulative concentration of anti-oxidants in said CDM is about 0.001 mM to about 10.0 mM for any single anti-oxidant and the cumulative concentration of all anti-oxidants is no more than about 30.0 mM.
- 26. The method of claim 24, wherein said sample color is no more yellow brown than European Color Standard BY3 when the concentration of protein in said harvest is normalized to $5.0~\rm g/L$.
- 27. The method of claim 23, wherein said reduced sample color has a b* value that is reduced by about 45% compared to an aflibercept sample color obtained by harvesting aflibercept produced by said host cell forming a harvest comprising aflibercept wherein one or more concentration of (i) to (vi) are not maintained.
- **28**. The method of claim **23**, wherein said anti-oxidant is taurine, hypotaurine, glycine, thioctic acid, glutathione, choline, hydrocortisone, Vitamin C, Vitamin E or combinations thereof.
- **29**. The method of claim **23**, wherein said CDM includes uridine, manganese, galactose or combinations thereof.
- **30**. The method of claim **23**, wherein there is no significant increase or decrease in titer, viable cell concentration, viability, ammonia or osmolality.

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